CASIO

Projectors

CONSTANT BRILLIANCE

5 YEAR 10,000 HOUR WARRANTY

HD ready

MERCURY FREE LIGHT SOURCE

casio.co.uk/projectors

At a glance

CONSTANT BRILLIANCE

The Casio projector range combines the extremely long life of Laser and LED technology to create an outstanding performance of up to 4,000 ANSI lumens. While the performance of a conventional projector lamp declines considerably with age, Casio projectors deliver consistantly brilliant, bright images throughout their 20,000 hour life.

Innovative Light Source Technology
Casio's revolutionary lamp-free Laser & LED hybrid light source technology improves environmental credentials AND reduces power consumption ensuring budgets go further.

Intelligence Brightness Control
Integrated light sensors detect the levels of ambient light and adjust brgihtness output to ensure optimum performance for the light conditions and further reduces energy consumption.

PC-free presenation
Selected models offer mobile presenting. Display your presentations / images / video's directly from a USB drive.

Advanced Connectivity
All models have standard vga and composite video, as well as an HDMI port for connection to high definition sources.

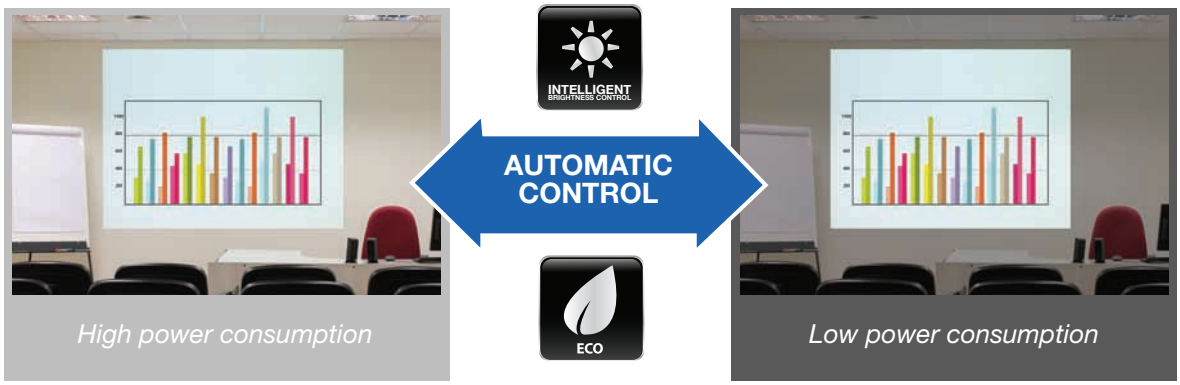
Flexible installations
A powerful integrated optical zoom feature allows the user to adjust the screen size projected without actually moving the projector.*

* On selected models. Short throw series do not have zoom function

Eco Features

Intelligent Brightness Control

Special integrated light sensors in all Casio projectors detect the levels of ambient light, and adjust brightness output to ensure optimum performance for the light conditions in the classroom. This means that the class will always be able to see the screen clearly and because power consumption is further reduced when the projectors operate below full brightness, the school will save money too!



Low-maintenance solution

With no lamps to check and replace, the user will save considerable time and money in comparison to conventional lamp-based projectors. Casio projectors are also filter-free, so users won't be spending any time or money on cleaning or replacing projector filters.

Conventional projectors after 2,000 hours

CASIO projectors with innovative laser and LED hybrid technology after 3,000 hours

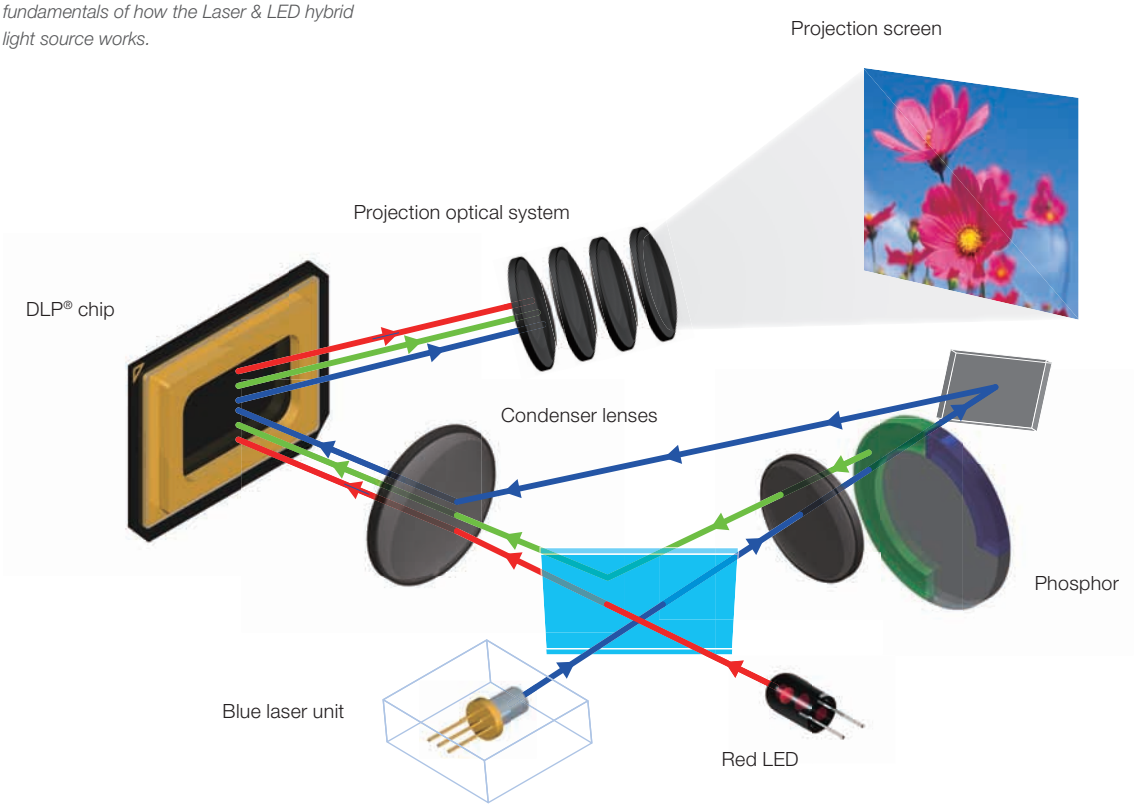
Innovative light source technology

Casio offer a complete range of lamp-free projectors, which sets Casio apart from all others. Offering users a greener, more cost effective projection solution the Laser & LED hybrid light source delivers top performance for the life of the projector, with unparalleled low total cost of ownership.

Casio's revolutionary lamp-free Laser & LED hybrid light source technology offers the user the opportunity to improve their environmental credentials AND make their budgets go further. By eliminating lamps, Casio projectors eliminate mercury from the classroom and give users the peace of mind that their AV equipment is free from environmentally hazardous substances. The innovative light source also demands less power than conventional lamps to achieve a comparable brightness, which will help to keep businesses and education establishments' carbon footprint to a minimum, and running costs down.

A new lamp can cost upwards of £400 and requires replacement in some cases after only 2000 hours. The Casio Laser & LED hybrid light source will last up to 20,000 hours.

The diagram shown illustrates the fundamentals of how the Laser & LED hybrid light source works.



If you're looking for top performance from your projectors, with the Casio Laser & LED hybrid light source there's no need to compromise. Conventional lamps decline in brightness over time, reaching just 50% of their original brightness at the end of their stated lifetime. This means that lamp-based projectors only perform to their maximum technical specification for a fraction of their product lifecycle. More importantly, it means that users may struggle to view the projected display as it becomes dimmer over time.

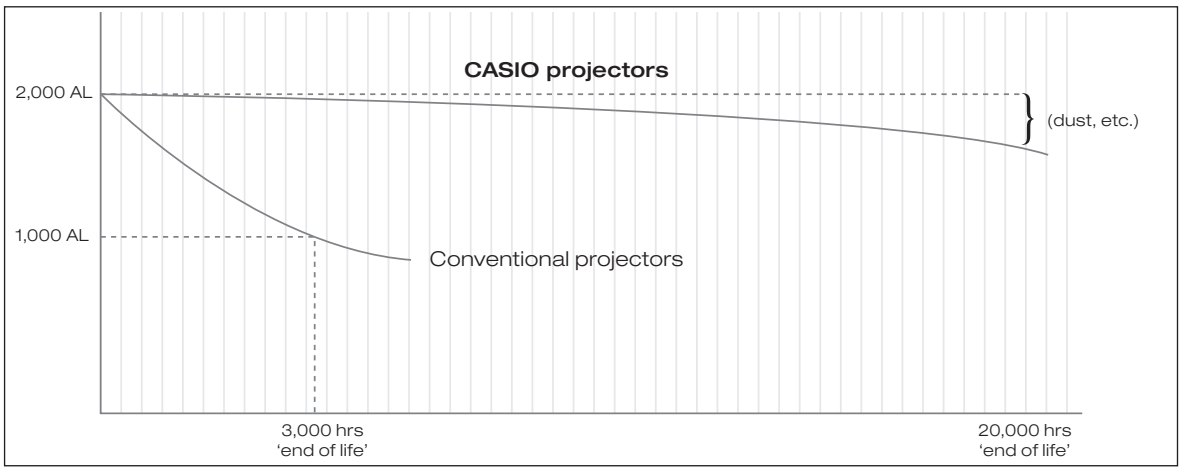
Key features

- Lamp-free Laser & LED Hybrid Light Source
- Mercury-free
- 20,000 hours life expectancy
- Eliminates the need for expensive replacement lamps
- Delivers consistent light output for the life of the projector

The Casio Laser & LED light source delivers consistent light output for the life of the projector, so users will view the same bright image over the lifetime of the projector.

Discover how much can be saved using Casio Projectors.

Our cost saving calculator will enable you to discover how much on average a year you could save by switching your projectors to Casio. Find out more today by visiting **www.casio.co.uk/projectorsTCO**



No lamp replacements ▸ *No follow-up costs*

Remote projector management

Crestron Roomview Express® software provides a custom configurable interface to monitor, manage and control every device in every room remotely from any computer. Use the free network management software (Crestron Roomview Express®) to automatically switch ON/OFF up to 250 projectors from a single location. The easy-to-use interface allows you to manage all the units connected to the network in one place.

- Manage up to 250 projectors at the same time (via master PC).
- Alter the projector settings using a simple web browser page including OSD menu control.
- Set up email alerts for warning messages.
- Ideal for large installations in both educational and business environments.

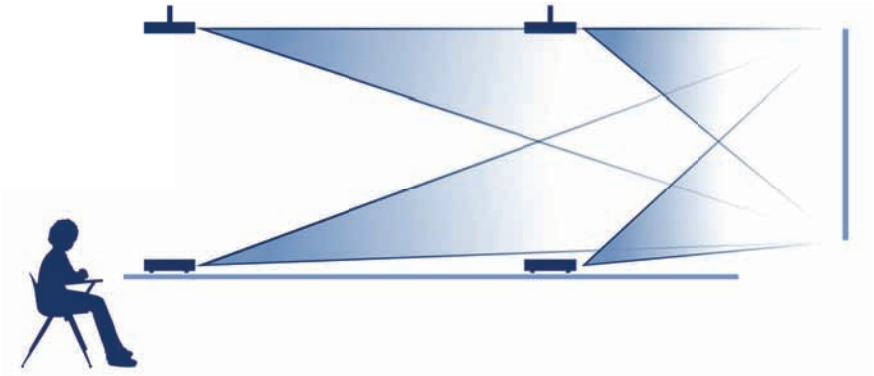
Available on Signature, Short Throw, Pro series Wireless / LAN models.

Download Crestron RoomView® Express software from:

www.crestron.com/getroomview

Flexible installations

To enable flexible installs within a host of applications, many of our projectors have integrated optical zoom. This enables users to adjust the screen size projected without actually moving the projector. It is particularly useful for meeting room upgrade programmes, where the Casio projector will be replacing an existing unit. The optical zoom feature means that the Casio projector could directly replace the old projector – without moving the brackets – and deliver exactly the same screen size as before. This will save a significant amount of time, money and disruption.



Interested in how Casio projectors would fit your room requirements?

Advanced Connectivity

Whatever your connection requirements you can achieve them with a Casio projector. All models have standard VGA and composite video connections, as well as an HDMI port ensuring your projector is HD Ready. Many models also offer S-Video connectivity, audio input / output and USB / wireless connectivity for PC free presentation.

Selected models can be connected to a network enabling them to be managed from a remote location, ensuring fleet management is effortless.

Teaching in the Third Dimension

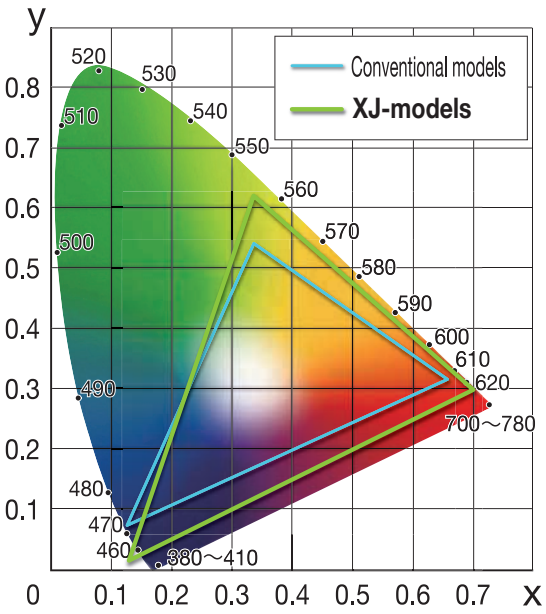
Equipped with a 3D ready DLP chip, many Casio projectors can display 3D content for rich, lifelike presentations.** Imagine how much easier it would be to understand complex scientific diagrams, or bring to life three-dimensional models and spatial visualisations.

3D technology allows presenters to showcase realistic, engaging images and movies to maximise the impact of their presentation.

*** 3D content and Active-shutter glasses required.*

Impressive colour rendition

Casio projectors deliver a brilliant colour rendition across a massive range of colours that is further enhanced by the 'Helmholtz–Kohlrausch effect'. This optical phenomenon causes an increase in the subjective perception of brightness proportional to the degree of colour saturation. The greyscale rendition of the new projectors is also almost perfect: black appears as black, and not as a dark grey. Such superb colour performance will give you the confidence to deliver truly memorable, impactful presentations.



The colour spectrum recognised by the human eye

CASIO

THE ONLY FIVE YEAR 10,000 HOUR* ON-SITE HARDWARE & LIGHT SOURCE WARRANTY

We are pleased to offer you additional peace of mind with our most comprehensive and quibble-free warranty which is available on ALL of our projectors.

5 YEAR 10,000 HOUR* WARRANTY

HD ready

MERCURY FREE LIGHT SOURCE

020 8208 9510 | projectors@casio.co.uk | casio.co.uk/projectors

CONSTANT BRILLIANCE

* Whichever comes first. Terms and conditions apply.

Casio Projector Range

Green Slim Series

The ideal replacement projector

The Green Slim series uses the cost-effective, environmentally friendly Casio Laser & LED Hybrid light source and is the perfect choice for those looking to upgrade their existing installed projectors. An industry-leading 2x optical zoom means that a Green Slim model will replace almost any installed projector seamlessly, without having to change the ceiling brackets. This helps to keep budgets under control and disruption to a minimum.

The Green Slim series offers brightness levels up to 3,000 ANSI lumens – more than enough for even a large, bright meeting room – and a choice of XGA and WXGA resolution. All models have HDMI connectivity, enabling the presentation of HD content and they're light and portable, so can easily be moved between rooms if required.

- Lamp-free Laser & LED Hybrid Light Source
  - Mercury-free
  - 20,000 hours life expectancy
  - Eliminates the need for expensive replacement lamps
  - Delivers consistent light output for the life of the projector
- Up to 3,000 ANSI lumens
- XGA and WXGA resolution
- 2x optical zoom
- Extensive connectivity options, including HDMI, LAN, WLAN and USB (selected models)
- Quick start and stop
- Mobi Show functionality for connection to smartphones and iPads (selected models)

Models	ANSI lumens	Resolution	USB/WLAN
XJ-A131	2,000	XGA (4:3)	–
XJ-A141 / XJ-A146	2,500	XGA (4:3)	XJ-A146 only
XJ-A241 / XJ-A246	2,500	WXGA (16:10)	XJ-A246 only
XJ-A251 / XJ-A256	3,000	WXGA (16:10)	XJ-A256 only

Case Study – Yates's

Bedford's top nightspot transforms its entertainment experience with Casio XJ-A projectors.

Yates's Bedford is a bar, nightclub and restaurant with a capacity of 500, making it one of the town's busiest nightspots.

Visitors are drawn to the pub's vibrant welcoming atmosphere and live televised sporting events. To provide the best-possible viewing experience of sports and music channels, Yates's Bedford had previously used four traditional lamp-based projectors, each areas hosting non-stop entertainment.

Gary Voysey is the General Manager of Yates's Bedford and has overall responsibility for providing his customers with a great pub experience. He takes up the story: ***"Our continued use of projectors in Yates's Bedford goes far beyond providing background entertainment. Regulars and visitors alike are nothing short of passionate about our screened events, so our ongoing schedule of live events is, and will continue to be, a key attraction."***

Gary asked sound and visual media provider PlayNetwork to suggest new, more cost-efficient and greener projector technologies — and that's where Casio comes in. Casio's XJ-A145 models, with Casio's own proprietary Laser & LED Hybrid technology, eliminate maintenance costs by using a solid-state lamp-free light source, providing a crisp, high quality image regardless of ambient lighting conditions.

"We are open from 10am till 3am each day, so the demands on our AV are intensive. Projectors are running all day, every day. We absolutely needed to install reliable, low-maintenance projectors that deliver crystal sharp images, day and night."

With the new Casio XJ-A145, no lamp changes are required and its laser and LED technology does not suffer from degradation in light power or image quality. The intense 2,500 lumen brightness of the Casio models will continue for its usable life. This also eliminates the need for Yates's Bedford to replace each projector's lamp every six months — a cost saving of around £200 each, plus an external call out charge. As a result, Gary will save around £2,000 per annum.

Installation of the projectors commenced in May 2011 and operating time has already surpassed 12,000 hours.

As with all of the Yates's chain, Yates's Bedford is keen to provide a safe operating atmosphere for both staff and public. Gary elaborates: *"The Casio XJ-A projectors are so easy to operate that we can now do the projector maintenance in-house. This is readily achieved with the Casio XJ-As as these projectors are filter-free and require minimal cleaning, and are also mercury-free."*

Eliminating mercury within each lamp is in line with the more open, greener, family pub environment Yates's Bedford encourages. In addition, the pub is driving down its carbon footprint; cutting electricity consumption by switching to alternative cleaner devices without affecting the customer experience.

The four Casio projectors are ceiling mounted, weigh-in at a lightweight 2Kg and have a discreet A4-sized footprint. Using the Casio XJ-As, the pub can be flexible about room layouts — Gary can elect to project directly onto walls, or on to a pull-down screen.

Gary summarises the Casio Laser & LED Hybrid projector experience: *"It has been a total win-win, in fact the difference between the old projectors and the new Casio models has been like going from black and white television to colour. From a visitor point of view, the Casio projectors have provided total 'wow' feedback, with no haze, and crystal-clear images. From a management perspective, they've been brilliant: they've driven down costs and power consumption and reduced maintenance time."*

"From a visitor point of view, the Casio projectors have provided total 'wow' feedback, with no haze, and crystal-clear images. From a management perspective, they've been brilliant: they've driven down costs and power consumption and reduced maintenance time."

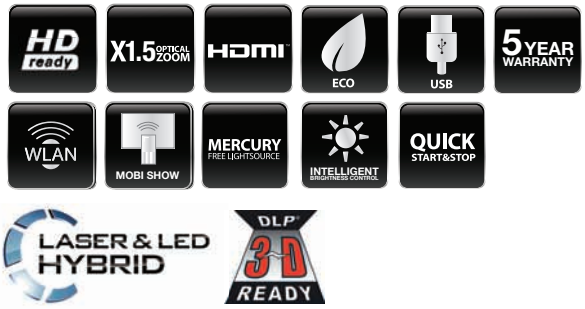
Signature Series

A versatile range of projectors for classrooms and meeting rooms

The Signature series offers versatile projection solutions using the cost-effective, environmentally friendly Casio Laser & LED Hybrid light source. Thanks to Intelligent Brightness Control, the light output is automatically adjusted according to the levels of ambient light. This minimises power consumption – and running costs – by ensuring that the brightness delivered is no more than actually required. The projectors also deliver all of the key benefits associated with the unique Casio Laser & LED Hybrid light source: excellent colour performance with no deterioration of brightness, a 20,000 hour life expectancy, quick start & stop, and the elimination of expensive replacement lamps. The nine models in the Signature series offer a range of connectivity options, including RGB, HDMI, LAN, WLAN & USB and can be used in any orientation offering complete flexibility for more bespoke applications.

- Lamp-free Laser & LED Hybrid Light Source
  - Mercury-free
  - 20,000 hours life expectancy
  - Eliminates the need for expensive replacement lamps
  - Delivers consistent light output for the life of the projector
- Up to 3,000 ANSI lumens
- XGA and WXGA resolution
- Intelligent Brightness Control
- 3D Ready
- Extensive connectivity options, including HDMI, LAN, WLAN, USB and S-Video (selected models)
- Mobi Show functionality for connection to smartphones and iPads (selected models)

Models	ANSI lumens	Resolution	USB/LAN/WLAN
XJ-M130	2,000	XGA (4:3)	–
XJ-M140 / XJ-M145	2,500	XGA (4:3)	XJ-M145 only
XJ-M150 / XJ-M155	3,000	XGA (4:3)	XJ-M155 only
XJ-M240 / XJ-M245	2,500	WXGA (16:10)	XJ-M245 only
XJ-M250 / XJ-M255	3,000	WXGA (16:10)	XJ-M255 only



Case Study – St Georges Academy

Leading Maths and Computing Academy, St Georges, adopts hybrid Laser/LED Projectors throughout the Academy:

"One of the very few products that I would happily endorse:" Jamie Hirst – ICT Services Director, St George's Academy.

New Casio XJ-M Signature range provides enlightened learning experience whist dramatically decreasing costs:

St George's Academy is a thriving, specialist academy in the heart of Lincolnshire excelling in the provision of Maths and Computing to over 2,200 students across two sites in Sleaford and Ruskington.

In the classroom, modern and emerging technologies take a key role in teaching methods with useful innovation being key to life at the Academy.

Jamie Hirst is the ICT Services Director for the Academy operating in a team of seven and is responsible for recommending and procuring integrated ICT to positively enrich the classroom experience. As such, when a Casio model of a new hybrid Laser/LED projector appeared back in the summer of 2010, and having worked with lasers previously, Jamie knew that what had been announced was nothing short of revolutionary enabling the move away from the resource draining conventional lamp-based projectors. He elaborates. *"The minute you switch on a conventional bulb based projector, degradation in the brightness of lumens starts. Prior to the new Casio projectors being deployed, we not only had to factor in the high cost of new bulbs every 3 years, at the cost of £200 each, we also had to consider the ongoing maintenance cost of cleaning out filters on a monthly basis, which is no longer required with the Casio projectors."*

Jamie contacted Casio and the first GreenSlim Casio XJ-A model was dispatched. Such was the positive response when in operation, that an order for the remaining five rooms in the Language Centre followed immediately.

It made sound financial and teaching sense to deploy LED/Lasers throughout the Academy and the decision was made to replace all the projectors. Casio had enhanced the model range further with the arrival of the new Casio XJ-M140.

Each Casio XJ-M140 arrived with a no quibble 5 year or 10,000 hour hardware and light source warranty, which Jamie envisages will last the Academy many, many years before each projector needs replacing.

The remaining units were installed in all the Academy's classrooms throughout the summer vacation and their lightweight frame slotted seamlessly into the existing ceiling mounted brackets.

When the Academy returned in the Autumn term, staff instantly reported a marked difference in their teaching experience. Lectures were no longer interrupted with staff fiddling with blinds and adjusting projector settings in order that the whole class could see the lesson properly.

As you would expect in such a forward thinking environment, the Academy has a strong Green Policy and strives wherever possible to reduce energy and carbon overheads, demonstrating efficiencies. Part of the Signature Range, the Casio XJ-M140 boasts 75% reduction in energy costs, using less than 1 watt of electricity in standby mode and contains no mercury for disposal considerations.

Jamie concludes. *"We stand proud of our heritage of deploying really useful technology that produces an enhanced learning experience for the children and staff and give us significant reductions in the cost of ownership deploying a far superior product. As a technology Academy, we stand extremely proud of this installation and technology choice and it is a solution I am happy to put my name against."*

"We stand proud of our heritage of deploying really useful technology that produces an enhanced learning experience for the children and staff and give us significant reductions in the cost of ownership deploying a far superior product."

Short Throw Series

Big screen performance in small spaces

The XJ-ST145 & XJ-ST155 deliver a short throw projection solution using the cost-effective, environmentally friendly Casio Laser & LED Hybrid light source. Perfect for use with whiteboards in classrooms or in meeting rooms where space is limited, the Short Throw models can achieve a 60" screen from just 80cm away from the display surface.

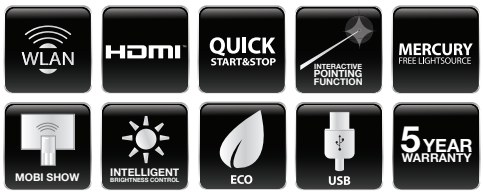
The optional interactive pointer enables interactive lessons and presentations without the need for a special interactive whiteboard, and 3D technology makes presentations even more lifelike and engaging.

Both models are easily re-fitted to existing short throw systems where projector replacement is required. Their ability to be connected to a network means that they can be monitored and controlled from a remote location, allowing users to centralise the management of their projector fleet.

- Lamp-free Laser & LED Hybrid Light Source
  - Mercury-free
  - 20,000 hours life expectancy
  - Eliminates the need for expensive replacement lamps
  - Delivers consistent light output for the life of the projector
- 60" screen from just 80cm
- Intelligent Brightness Control
- 3D Ready
- Interactive functionality (with optional pointer)
- Extensive connectivity options, including HDMI, LAN, WLAN and USB
- Mobi Show functionality for connection to smartphones and iPads
- Short throw series can be retrofitted to existing interactive solutions.

Contact your reseller or distribution partner for bespoke bracket options

Models	ANSI lumens	Resolution	USB/LAN/WLAN
XJ-ST145	2,500	XGA (4:3)	Yes
XJ-ST155	3,000	XGA (4:3)	Yes



Full 5 year or 10,000 hour warranty

Case Study – United Learning

United Learning, nationwide advisor for 30,000 children across UK Academies' & Independent Schools, recommends Casio's Revolutionary LED Projector range:

New Casio LED lampless technology re-invigorates classroom learning and dramatically reduces cost of ownership for education.

United Learning offers best advice on provision of a quality infrastructure to 30,000 schoolchildren across the UK. To this end, United Learning Technologies group ethos is to train and facilitate their 2,500 teachers to enable the most out of new technology to positively enrich the classroom experience.

Learning Technoloiges Team Leader Geoff Gould has been an ongoing advocate of deployment of worthy audio visual equipment technology to education establishments for over ten years. He takes up the story. *"Since 1999 we have had a policy of having LCD projectors to accompany our Interactive Whiteboards. However, whilst LCD projectors were still a mile ahead of the previous OHP projection technology, distinct quality issues were becoming apparent after just a year or so of use."*

In the classroom, lamp lumen degradation was the first to go; with lamps starting to significantly dim after 15-18 months of use. In addition, ongoing maintenance was required with filter cleaning recommended on a monthly basis. Ongoing lamp replenishment was another constant drain. With most schools holding a variety of LCD projectors all with varying lamp types, academies were required to keep a rolling stock of replacement lamps on premises.

Environmental factors within the classroom itself also needed to be considered when using the LCD projectors. Blinds to divert natural daylight often needed to be darkout or even blackout quality and lights had to be switched off to stop incumbent light pollution. Teachers were also concerned that these conditions were less than ideal for those pupils who may have been susceptible to eye strain.

Teachers, school AV Teams and IT departments turned to the experts at United Learning for advice, despondent that even after just the second year of use the LCD projectors were becoming sub-optimal.

United Learning contacted their AV partner, IDNS, who suggested that lampfree LED technology should be evaluated as an alternative technology. Casio's new XJ range was suggested and following a demonstration, Geoff and the Team at United Learning were impressed by the immediate light vibrancy on offer.

Communications to all of the United Learning's Network Managers followed containing recommendations as to why individual establishments would benefit, with proof points provided by Swindon Academy.

A year down the line, the Casio XJ LED projector ranges are firmly entrenched across the UK's classrooms, with over 10 of United Learning's establishments running the transforming Casio LED projectors. That's over 700 units, with more being installed as budget allow each week; their compact size slotting into the existing ceiling mounts and their inbuilt auto configuration quickly finding the optimum viewing experience.

In terms of ROI vs. initial capital outlay per unit, Geoff has conducted some interesting findings with a five year cost of ownership (TCO) plan for traditional LCD vs. Casio's LED projectors. He comments on his findings: *"A traditional lamp based LCD projectors' TCO over 5 years equates to around £1200 (including projector, sourcing & installing 1 replacement lamp, arranging 1 offsite specialist deep clean & ongoing onsite maintenance 6 times a year); vs. Casio's XJ unit that retails at under £700 and simply has no further overhead. It's not just the financial considerations that stand out here. It's the fact that there is no downtime or hassle factor with the Casio XJ LED projectors."*

For total peace of mind, Geoff notes that Casio uniquely back each unit with a 5 year, 10,000 hour no-quibble guarantee.

"It's not just the financial considerations that stand out here. It's the fact that there is no downtime or hassle factor with the Casio XJ LED projectors."

Pro Series

High brightness projectors for installation

The Pro series offers high brightness projection solutions using the cost-effective, environmentally friendly Casio Laser & LED Hybrid light source. Perfect for large meeting rooms and school halls, models in the Pro series deliver up to 4000 ANSI lumens with consistent brightness and a 20,000 hour life expectancy. Intelligent Brightness Control adjusts the light output according to the levels of ambient light, which minimises power consumption – and running costs – by ensuring that the brightness delivered is no more than actually required. All models are 3D ready, and selected models can be used with a Casio interactive pointer to enable interaction with presentations for a rich, dynamic projection experience. Selected models can also be connected to a network, which means that it can be monitored and controlled from a remote location, allowing users to centralise the management of their projector fleet.

- Lamp-free Laser & LED Hybrid Light Source
  - Mercury-free
  - 20,000 hours life expectancy
  - Eliminates the need for expensive replacement lamps
  - Delivers consistent light output for the life of the projector
- Bright up to 4,000 ANSI lumens performance
- Intelligent Brightness Control
- XGA and WXGA resolution
- 3D Ready
- Interactive functionality (with optional pointer)
- Extensive connectivity options, including HDMI, LAN, WLAN and USB (XJ-H1650)
- Mobi Show functionality for connection to smartphones and iPads (XJ-H1650)

Models	ANSI lumens	Resolution	USB/LAN/WLAN
XJ-H1600 / XJ-H1650	3,500	XGA (4:3)	XJ-H1650 only
XJ-H1700 / XJ-H1750	4,000	XGA (4:3)	XJ-H1750 only
XJ-H2600/ XJ-H2650	3,5000	WXGA	XJ-H2650 only

Market opportunities

The Casio range of projectors have been designed to ensure all users get the following from their projectors:

- Ease of use
- Cost savings
- Low maintenance
- Peace of mind

Casio projectors have many applications, examples of which are below.

Leisure and hospitality

The requirement for projectors within leisure and hospitality applications varies depending on location and type of application. However all of these environments require a product that is easy to install, can replace existing models and will save them both time and money. For example the Casio Green Slim series has great success within bars and restaurants as it eliminates maintenance costs and provides crisp high quality images regardless of ambient light conditions.

Corporate

Within large corporations projectors and AV equipment are now common place, often the requirement for projectors is within boardrooms, meeting rooms and training facilities.

The Casio Signature and Pro Series are designed to suit these applications.

With their multiple inputs, quick start-up mode and unique lamp-free light source, they offer a low TCO compared to all standard LCD projectors, saving businesses time and money.

Education

From primary school classrooms through to higher education seminar rooms there is a Casio projector that will suit.

The Casio projector range offer a wide choice of options to fulfil the requirements of any education environment, ranging from 2000 to 4000 ANSI lumens brightness, available in XGA and WXGA resolution and with a choice of connectivity and functionality these easy to install projectors are a natural fit for education.

The Casio range of projectors will not only save money over time, but also reduce maintenance and downtime, and enhance any learning environment with their ability to deliver bright images and movies even in well-lit rooms.

The entire range of Casio projectors come with a quibble-free 5 year/10,000 hour on-site hardware and light source warranty ensuring peace of mind, whatever the application.

Model			GREEN SLIM SERIES					S
			XJ-A131	XJ-A141 XJ-A146	XJ-A241 XJ-A246	XJ-A251 XJ-A256	XJ-M130	XJ-M140 XJ-M145
Technology			XGA 0.55" DLP® chip	XGA 0.55" DLP® chip	WXGA 0.65" DLP® chip	WXGA 0.65" DLP® chip	XGA 0.55" DLP® chip	XGA 0.55" DLP® chip
Light Source			Laser - LED Hybrid	Laser - LED Hybrid	Laser - LED Hybrid	Laser - LED Hybrid	Laser - LED hybrid	Laser - LED hybrid
Life Expectancy			20,000 Hours	20,000 Hours	20,000 Hours	20,000 Hours	20,000 Hours	20,000 Hours
Brightness (ANSI Lumens)			2000	2500	2500	3000	2000	2500
Intelligent Brightness Control			Available (Auto / Manual)	Available (Auto / Manual)	Available (Auto / Manual)	Available (Auto / Manual)	Available (Auto / Manual)	Available (Auto / Manual)
Contrast Ratio			1800:1	1800:1	1800:1	1800:1	1800 : 1 (tele mode)	1800 : 1 (tele mode)
Native Resolution			XGA (1024x768 pixels)	XGA (1024x768 pixels)	WXGA (1280x800 pixels)	WXGA (1280x800 pixels)	XGA (1024x768 pixels)	XGA (1024x768 pixels)
Max Signal Resolution			UXGA / WSXGA+	UXGA / WSXGA+	UXGA / WSXGA+	UXGA / WSXGA+	UXGA / WSXGA+	UXGA / WSXGA+
Lens	Standard zoom		2x optical zoom (electronic)	2x optical zoom (electronic)	2x optical zoom (electronic)	2x optical zoom (electronic)	1.5x optical zoom (manual)	1.5x optical zoom (manual)
	Focus		Electronic	Electronic	Electronic	Electronic	Manual	Manual
	Offset		100%	100%	84%	84%	100%	100%
	Projection Ratio		f15.9-30.8/ F2.29-3.09	f15.9-30.8/ F2.29-3.09	f15.9-30.8/ F2.29-3.09	f15.9-30.8/ F2.29-3.09	f18.9-27.2/ F2.31-2.73	f18.9-27.2/ F2.31-2.73
Fan Noise			35dB (Eco 1)	35dB (Eco 1)	35dB (Eco 1)	35dB (Eco 1)	33 dB (default) / 28 dB (safe)	33 dB (default) / 28 dB (safe)
Keystone Correction (Vertical)			+/- 30° (Auto)	+/- 30° (Auto)	+/- 30° (Auto)	+/- 30° (Auto)	+/- 30° (Auto)	+/- 30° (Auto)
Screen Size (diagonally)			15 - 300 inch	15 - 300 inch	18 - 300 inch	18 - 300 inch	30 - 300 inch	30 - 300 inch
Throwing Distance	60" screen		1.7m - 3.4m	1.7m - 3.4m	1.4m - 2.8m	1.4m - 2.8m	2.0m to 3.0m	2.0m to 3.0m
	100" screen		2.8 - 5.6	2.8 - 5.6	2.4 - 4.8	2.4 - 4.8	3.4m to 4.9m	3.4m to 4.9m
Throw Ratio			1.4 - 2.8	1.4 - 2.8	1.15 - 2.3	1.15 - 2.3	1.64 - 2.46 : 1	1.64 - 2.46 : 1
Inputs	Computer	Input	1 x 15-pin RGB mini D-sub (VGA)	1 x 15-pin RGB mini D-sub (VGA)	1 x 15-pin RGB mini D-sub (VGA)	1 x 15-pin RGB mini D-sub (VGA)	1 x 15-pin RGB mini D-sub (VGA)	1 x 15-pin RGB mini D-sub (VGA)
		Output	-	-	-	-	-	-
	Digital input		1 x HDMI type A (480p–1,080p)	1 x HDMI type A (480p–1,080p)	1 x HDMI type A (480p–1,080p)	1 x HDMI type A (480p–1,080p)	1 x HDMI type A (480p–1,080p)	1 x HDMI type A (480p–1,080p)
	Video		1 x RCA composite (via supplied AV cable)	1 x RCA composite (via supplied AV cable)	1 x RCA composite (via supplied AV cable)	1 x RCA composite (via supplied AV cable)	1 x RCA (composite)	1 x RCA (com- posite)
			-	-	-	-	1 x S-Video	1 x S-Video
	Component video		Via D Sub 15-pin	Via D Sub 15-pin	Via D Sub 15-pin	Via D Sub 15-pin	Via D Sub 15-pin	Via D Sub 15-pin
	Audio	Input	-	-	-	-	1 x 3.5 mm stereo mini jack	1 x 3.5 mm stereo mini jack
			-	-	-	-	RCA pin terminal (L/R) x1	RCA pin terminal (L/R) x1
		Output	From HDMI input only	From HDMI input only	From HDMI input only	From HDMI input only	1 x 3.5 mm stereo mini jack	1 x 3.5 mm stereo mini jack
	RS-232C serial		YK-5 (optional accessory)	YK-5 (optional accessory)	YK-5 (optional accessory)	YK-5 (optional accessory)	1 x 9-pin mini D-sub	1 x 9-pin mini D-sub
	WLAN		-	XJ-A146 only	XJ-A246 only	XJ-A256 only	-	XJ-M145 only
	LAN terminal		-	-	-	-	-	1 x RJ45 (XJ-M145 only)
	USB		-	1 x USB type A (XJ- A146 only)	1 x USB type A (XJ-A246 only)	1 x USB type A (XJ-A256 only)	-	1 x USB type A (XJ-M145 only)
	Interactive pointing		-	-	-	-	-	-
Speaker			1W	1W	1W	1W	5W	5W
Instant Off			Yes	Yes	Yes	Yes	Yes	Yes
Time To Full Bright- ness	Max		8 secs	8 secs	8 secs	8 secs	5 secs	5 secs
Power Consumption	Eco Off		210W	210W	210W	210W	190W	190W
	Eco On Level 1		170W	170W	170W	170W	150W	150W
	Standby		0.6W	0.6W	0.6W	0.6W	0.4W	0.4W
Colour			White	White	White	White	White	White
Dimensions (wxhxd) mm			297x43x210	297x43x210	297x43x210	297x43x210	311 x 244 x 82	311 x 244 x 82
Weight			2.3kg	2.3kg	2.3kg	2.3kg	3.9kg	3.9kg
Box Contents			Remote Control (YT-110), Composite Cable, RGB Cable, Wireless Adapter (USB models only), Power Cable, Soft Carrying Case, User Manual, CD-ROM					Remote Control (YT-120), Power Cable, Sc

IGNATURE SERIES			SHORT THROW SERIES		PRO SERIES		
XJ-M150 XJ-M155	XJ-M240 XJ-M245	XJ-M250 XJ-M255	XJ-ST145	XJ-ST155	XJ-H1600 XJ-H1650	XJ-H1700 XJ-H1750	XJ-H2600 XJ-H2650
XGA 0.55" DLP® chip	WXGA 0.65" DLP® chip	WXGA 0.65" DLP® chip	XGA 0.7" DLP® chip	XGA 0.7" DLP® chip	XGA 0.7" DLP® chip	XGA 0.7" DLP® chip	WXGA 0.65" DLP® chip
Laser - LED hybrid	Laser - LED hybrid	Laser - LED hybrid	Laser - LED hybrid	Laser - LED hybrid	Laser - LED hybrid	Laser - LED hybrid	Laser & LED hybrid
20,000 Hours	20,000 Hours	20,000 Hours	20,000 Hours	20,000 Hours	20,000 Hours	20,000 Hours	20,000 Hours
3000	2500	3000	2500	3000	3500	4000	3500
Available (Auto / Manual)	Available (Auto / Manual)	Available (Auto / Manual)	Available (Auto / Manual)	Available (Auto / Manual)	Available (Auto / Manual)	Available (Auto / Manual)	Available (Auto / Manual)
1800 : 1 (tele mode)	1800 : 1 (tele mode)	1800 : 1 (tele mode)	1,800 : 1 (tele mode)	1,800 : 1 (tele mode)	1400 : 1	1400 : 1	1400 : 1
XGA (1024x768 pixels)	WXGA (1280x800 pixels)	WXGA (1280x800 pixels)	XGA (1024x768 pixels)	XGA (1024x768 pixels)	XGA (1024x768 pixels)	XGA (1024x768 pixels)	WXGA (1280x800 pixels)
UXGA / WSXGA+	UXGA / WSXGA+	UXGA / WSXGA+	UXGA / WSXGA+	UXGA / WSXGA+	UXGA / WSXGA+	UXGA / WSXGA+	UXGA / WSXGA+
1.5x optical zoom (manual)	1.5x optical zoom (manual)	1.5x optical zoom (manual)	-	-	1.2x optical zoom (manual)	1.2x optical zoom (manual)	1.2x optical zoom (manual)
Manual	Manual	Manual	Manual	Manual	Manual	Manual	Manual
100%	83%	83%	109%	109%	100%	100%	111%
f18.9-27.2/ F2.31-2.73	f18.9-27.2/ F2.31-2.73	f18.9-27.2/ F2.31-2.73	f9.78/F2.5	f9.78/F2.5	f23.2-27.7/F2-2.15	f23.2-27.7/F2-2.15	f23.2-27.7/F2-2.15
33 dB (default) / 28 dB (safe)	33 dB (default) / 28 dB (safe)	33 dB (default) / 28 dB (safe)	33 dB (default) / 28 dB (safe)	33 dB (default) / 28 dB (safe)	33 dB (default) / 28 dB (safe)	33 dB (default) / 28 dB (safe)	33 dB (default) / 28 dB (safe)
+/- 30° (Auto)	+/- 30° (Auto)	+/- 30° (Auto)	+/- 30° (Auto)	+/- 30° (Auto)	+/- 30° (Auto)	+/- 30° (Auto)	+/- 30° (Auto)
30 - 300 inch	35 - 300 inch	35 - 300 inch	45 - 142 inches	45 - 142 inches	27 - 300 inches	27 - 300 inches	30 - 300 inches
2.0m to 3.0m	1.7 to 2.5m	1.7 to 2.5m	0.8m	0.8m	1.9m - 2.3m	1.9m - 2.3m	2.1 - 2.5m
3.4m to 4.9m	2.9 to 4.9m	2.9 to 4.9m	1.4m	1.4m	3.3m - 3.9m	3.3 - 3.9m	3.5 - 4.2m
1.64 - 2.46 : 1	1.32 - 1.93 : 1	1.32 - 1.93 : 1	0.68 : 1	0.68 : 1	1.60 - 1.91 : 1	1.60 - 1.91 : 1	1.62 - 1.95
1 x 15-pin RGB mini D-sub (VGA)	1 x 15-pin RGB mini D-sub (VGA)	1 x 15-pin RGB mini D-sub (VGA)	2 x 15-pin RGB mini D-sub (VGA)	2 x 15-pin RGB mini D-sub (VGA)	2 x 15-pin RGB mini D-sub (VGA)	2 x 15-pin RGB mini D-sub (VGA)	2 x 15 pin RGB mini D-sub (VGA)
-	-	-	1 x 15-pin RGB mini D-sub (VGA)	1 x 15-pin RGB mini D-sub (VGA)	1 x 15-pin RGB mini D-sub (VGA)	1 x 15-pin RGB mini D-sub (VGA)	1 x 15 pin RGB mini D-sub (VGA)
1 x HDMI type A (480p–1,080p)	1 x HDMI type A (480p–1,080p)	1 x HDMI type A (480p–1,080p)	1 x HDMI type A (480p–1,080p)	1 x HDMI type A (480p–1,080p)	1 x HDMI type A (480p–1,080p)	1 x HDMI type A (480p–1,080p)	1 x HDMI type A (480p–1,080p)
1 x RCA (composite)	1 x RCA (composite)	1 x RCA (composite)	1 x RCA (composite)	1 x RCA (com-posite)	1 x RCA (composite)	1 x RCA (com-posite)	1 x RCA (composite)
1 x S-Video	1 x S-Video	1 x S-Video	1 x S-Video	1 x S-Video	1 x S-Video	1 x S-Video	1 x S-Video
Via D Sub 15-pin	Via D Sub 15-pin	Via D Sub 15-pin	Via D Sub 15-pin	Via D Sub 15-pin	Via D Sub 15-pin	Via D Sub 15-pin	Via D-Sub 15 pin
1 x 3.5 mm stereo mini jack	1 x 3.5 mm stereo mini jack	1 x 3.5 mm stereo mini jack	2 x 3.5 mm stereo mini jack	2 x 3.5 mm stereo mini jack	2 x 3.5 mm stereo mini jack	2 x 3.5 mm stereo mini jack	2 x 3.5mm stereo mini jack
RCA pin terminal (L/R) x1	RCA pin terminal (L/R) x1	RCA pin terminal (L/R) x1	RCA pin terminal (L/R) x1	RCA pin terminal (L/R) x1	RCA pin terminal (L/R) x1	RCA pin terminal (L/R) x1	RCA pin terminal (L/R) x 1
1 x 3.5 mm stereo mini jack	1 x 3.5 mm stereo mini jack	1 x 3.5 mm stereo mini jack	1 x 3.5 mm stereo mini jack	1 x 3.5 mm stereo mini jack	1 x 3.5 mm stereo mini jack	1 x 3.5 mm stereo mini jack	1 x 3.5mm stereo mini jack
1 x 9-pin mini D-sub	1 x 9-pin mini D-sub	1 x 9-pin mini D-sub	1 x 9-pin mini D-sub	1 x 9-pin mini D-sub	1 x 9-pin mini D-sub	1 x 9-pin mini D-sub	1 x 9-pin mini D-sub
XJ-M155 only	XJ-M245 only	XJ-M255 only	Yes	Yes	XJ-H1650 only	XJ-H1750 only	XJ-H2650 only
1 x RJ45 (XJ-M155 only)	1 x RJ45 (XJ-M245 only)	1 x RJ45 (XJ-M255 only)	1 x RJ45	1 x RJ45	1 x RJ45 (XJ-H1650 only)	1 x RJ45 (XJ-H1750 only)	1 x RJ45 (XJ-H2650 only)
1 x USB type A (XJ-M155 only)	1 x USB type A (XJ-M245 only)	1 x USB type A (XJ-M255 only)	1 x USB type A	1 x USB type A	1 x USB type A (XJ-H1650 only)	1 x USB type A (XJ-H1750 only)	1 x USB type A (XJ-H2650 only)
-	-	-	1 x USB type B	1 x USB type B	1 x USB type B (XJ-H1650 only)	1 x USB type B (XJ-H1750 only)	1 x USB type B (XJ-H2650 only)
5W	5W	5W	10W	10W	10W	10W	10W
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
5 secs	5 secs	5 secs	5 secs	5 secs	5 secs	5 secs	5 secs
190W	190W	190W	330W	330W	330W	350W	330W
150W	150W	150W	260W	260W	250W	270W	250W
0.4W	0.4W	0.4W	0.4W	0.4W	0.4W	0.4W	0.4W
White	White	White	White	White	White	White	White
311 x 244 x 82	311 x 244 x 82	311 x 244 x 82	420 x 323 x 106	420 x 323 x 106	400 x 323 x 106	400 x 323 x 106	400 x 323 x 106mm
3.9kg	3.9kg	3.9kg	7.1kg	7.1kg	7.1kg	7.1kg	7.1kg
RGB Cable, Wireless Adapter (USB models only) ft Carrying Case, User Manual, CD-ROM			Remote Control (YT-120), RGB Cable, Wireless Adapter (USB models only) Power Cable, Soft Carrying Case, User Manual, CD-ROM		Remote Control (Y-120), RGB Cable, Wireless Adapter (USB models only) Power Cable, Soft Carrying Case, User Manual, CD-ROM		

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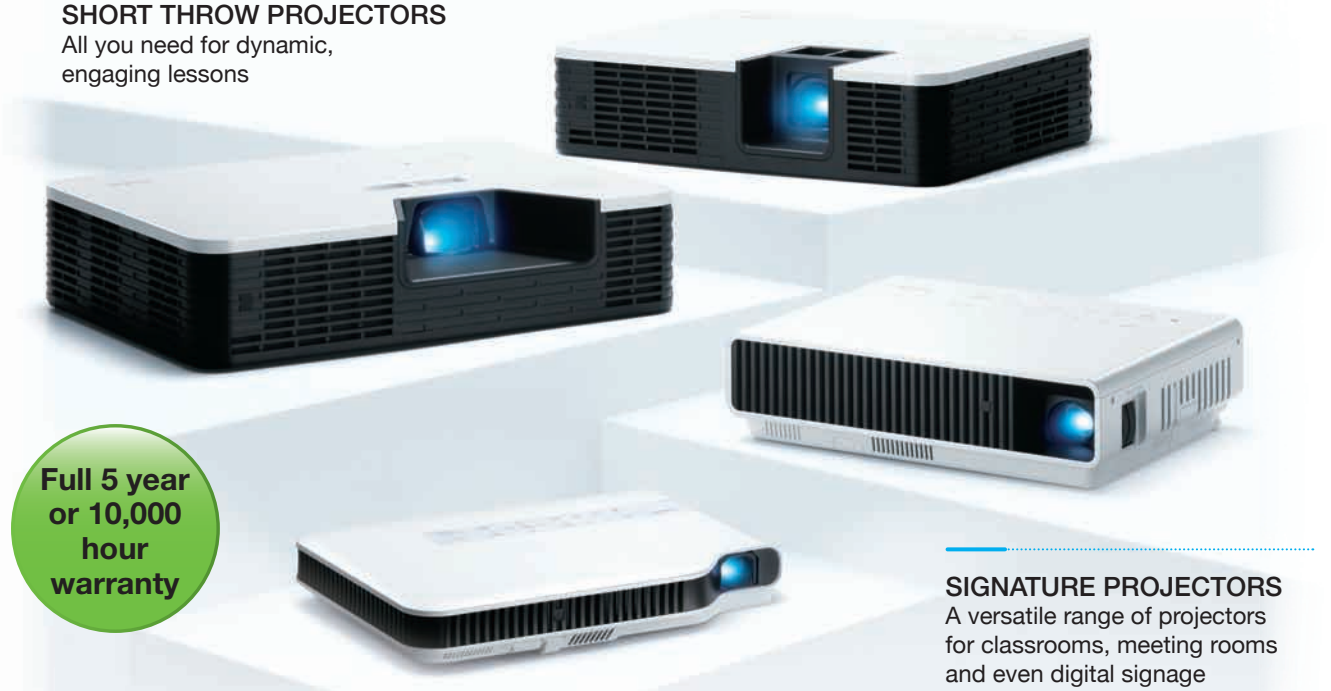

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